14. (Currently amended) A circuit for use in measuring pollution on a power line comprising:

a filter for attenuating the fundamental frequency of the power line signal;

a capacitor coupled to the filter for differentiating the output signal from the filter;

an operational amplifier (OP amp) having a negative terminal coupled to the capacitor, ~~and~~ an output of the OP amp being coupled to the negative terminal of the OP amp through a feedback path which includes a rectifier and a parallel combination of a resistor and a capacitor having an RC time constant, the RC time constant and rectifier ~~being such as~~ to cause the output of the OP amp to be a DC signal.

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15. (Original) The circuit defined by claim 14, including a voltage divider for reducing the AC line potential before it is coupled to the filter.

16. (Currently amended) The circuit defined by claim 15, including a pair of parallel ~~back-to-back~~ diodes ~~coupled~~ connected with their polarities reversed disposed between the negative terminal and a positive terminal of the OP amp for limiting the amplitude of the signal applied to the OP amp.

17. (Original) The circuit defined by claim 16, including a meter coupled to the output of the OP amp.

18. (Cancelled)